

## State Water Resources Control Board

Division of Drinking Water

February 7, 2019

Certified Mail/Return Receipt No.  
7017 0190 0000 6412 8451

Patrick Minturn, Director of Public Works  
Shasta County Department of Public Works  
1855 Placer Street  
Redding, CA 96001

### TRANSMITTAL OF COMPLIANCE ORDER NO. 01-02-19R-001 for PWS #4500317

Dear Mr. Minturn,

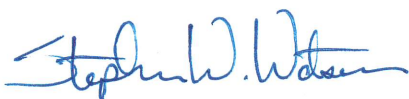
The Shasta County Service Area No. 11 – French Gulch water system is in violation of Title 22, Section 64533(a) of the California Code of Regulations, Stage 2 Disinfection Byproduct Rule Haloacetic Acids (five) (HAA5) Maximum Contaminant Level (MCL). Specifically, the HAA5 locational running annual average at one sampling location exceeded the HAA5 MCL of 0.060 mg/L during the fourth of quarter 2018 and the first quarter of 2019. In response to this violation, the State Water Resources Control Board - Division of Drinking Water has issued Compliance Order No. 01-02-19R-001 under cover of this letter.

Any person who is aggrieved by an order or decision issued by the deputy director of the Division of Drinking Water under Article 8 (commencing with Health and Safety Code section 116625) or Article 9 (commencing with Health and Safety Code section 116650), of the Safe Drinking Water Act (Chapter 4, Part 12, Division 104, of the Health and Safety Code) may file a petition with the State Water Board for reconsideration of the order or decision.

Petitions must be received by the State Board within 30 days of the issuance of the order or decision by the Deputy Director. The date of issuance is the date when the Division of Drinking Water mails a copy of the order or decision. If the 30th day falls on a Saturday, Sunday, or state holiday, the petition is due the following business day. Petitions must be received by 5:00 p.m. Information regarding filing petitions may be found at:

[http://www.waterboards.ca.gov/drinking\\_water/programs/petitions/index.shtml](http://www.waterboards.ca.gov/drinking_water/programs/petitions/index.shtml)

If you have any questions, please contact me by email at [Steve.Watson@waterboards.ca.gov](mailto:Steve.Watson@waterboards.ca.gov) or by phone at (530) 224-4800.



Stephen W. Watson, P.E.  
Lassen District Engineer  
Drinking Water Field Operations Branch

Enclosure: Compliance Order No. 01-02-19R-001 with attachments

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**STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
DIVISION OF DRINKING WATER**

Shasta County Service Area No. 11 – French Gulch  
Water System No. 4500317

Patrick Minturn, Director of Public Works  
Shasta County Department of Public Works  
1855 Placer Street  
Redding, CA 96001

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**COMPLIANCE ORDER NO. 01-02-19R-001**

**FOR NONCOMPLIANCE WITH THE  
STAGE 2 DISINFECTION BYPRODUCT RULE  
MAXIMUM CONTAMINANT LEVEL FOR  
HALOACETIC ACIDS (FIVE)  
SECTION 64533(a), TITLE 22, CALIFORNIA CODE OF REGULATIONS**

**Issued on February 7, 2019**

Section 116655 of the California Health and Safety Code authorizes the issuance of a compliance order to a public water system for violation of the California Safe Drinking Water Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with Section 116270) (hereinafter “California SDWA”), or any regulation, standard, permit or order issued or adopted thereunder.

The State Water Resources Control Board (hereinafter “State Board”), acting by and through its Division of Drinking Water (hereinafter “Division”) and the Deputy Director for the Division (hereinafter “Deputy Director”), hereby issues a compliance order to the Shasta County Service Area No. 11 – French Gulch (hereinafter CSA #11) water system for violation of California Code of Regulations (hereinafter “CCR”), Title 22, Section 64533(a), Maximum Contaminant Levels for Disinfection Byproducts (DBPs).



**STATEMENT OF FACTS**

The Shasta County Service Area No. 11 – French Gulch water system is one of several water systems operated by Shasta County. The system serves treated surface water from Upper Clear Creek to a population of about 277 through 84 service connections in the French Gulch community, western Shasta County. Surface water is chlorinated, filtered and then pumped to a 350,000-gallon storage tank. Two Roberts Pacer II units, an alternative filtration technology, are used to remove turbidity and microbial contaminants at this treatment plant. Roberts Pacer II units are granted 2-log Giardia removal credit, 2-log Cryptosporidium removal credit, and 1-log virus removal credit provided a performance standard of 0.3 NTUs is maintained. Treatment includes the addition of pre-filter coagulant, alum, and sodium hypochlorite, followed by clarification and multi-media gravity filtration. The plant does not have post-filtration chlorination capabilities.

CCR, Title 22, Chapter 15.5 (hereinafter “Stage 2 Disinfection Byproduct Rule” or “ST2DBPR”) adopted by California, effective June 21, 2012, requires water systems serving less than 10,000 persons to monitor and report disinfection byproduct and residual disinfectant levels. The ST2DBPR applies to any community or non-transient non-community water system that treats water with a chemical disinfectant in any part of the treatment process or that provides water containing a chemical disinfectant. CCR, Title 22, Section 64533 establishes a maximum contaminant level (hereinafter “MCL”) in drinking water for total trihalomethanes (hereinafter “TTHM”) and haloacetic acids (five) (hereinafter “HAA5”) in drinking water of 0.080 mg/L and 0.060 mg/L, respectively.





1 Pursuant to the requirements of CCR, Title 22, Section 64534.2(d), CSA #11 collects  
2 two samples (one for TTHMs and one for HAA5s) from two locations each calendar  
3 quarter. These locations are identified in the CSA #11's approved compliance  
4 monitoring plan and are known as Tailing Street and French Gulch Road.

5  
6 CCR, Title 22, Section 64534.2(6) specifies ongoing monitoring of locational  
7 operational evaluation levels (OELs) based on quarterly TTHM and HAA5 monitoring.  
8 Per CCR, Title 22, Section 64400.90 "Operational evaluation level" or "OEL" means  
9 the sum of the two previous quarters' TTHM results plus twice the current quarter's  
10 TTHM result, divided by 4 to determine an average; or the sum of the two previous  
11 quarters' HAA5 results plus twice the current quarter's HAA5 result, divided by 4 to  
12 determine an average. If the OEL covering any consecutive three-quarter period  
13 exceeds the TTHM MCL or the HAA5 MCL at any monitoring location, then the system  
14 shall conduct an operational evaluation and submit a written report. The operational  
15 evaluation shall include the examination of system treatment and distribution  
16 operational practices that may contribute to TTHM and HAA5 formation, and steps to  
17 be considered to minimize future exceedances.

18  
19 CCR, Title 22, Section 64535.2(e)(1), specifies ongoing compliance determinations for  
20 quarterly TTHM and HAA5 monitoring; specifically, compliance with the TTHM and  
21 HAA5 MCLs are based on a locational running annual average (LRAA), computed  
22 quarterly, at each approved sample site. Per CCR, Title 22, Section 64400.66  
23 "Locational running annual average" or "LRAA" means the average of sample  
24 analytical results for samples taken at a particular monitoring location during the  
25 previous four calendar quarters. If the LRAA exceeds the TTHM MCL or the HAA5  
26 MCL at any monitoring location, then the system is in violation of the MCL.

27

The following is a summary of HAA5 monitoring results for the last five quarters at the Tailings Street and French Gulch Road.

Tailings Street				
Quarter	Sample Date	HAA5 Sample Result (mg/L)	Operational Evaluation Level (mg/L)	Locational Running Annual Average (mg/L)
1Q18	03/21/18	0.046	-	-
2Q18	06/21/18	0.036	-	-
3Q18	09/28/18	0.040	0.040	-
4Q18	12/13/18	0.129	0.083	0.063
1Q19	01/17/19	0.073	0.079	0.069

French Gulch Road				
Quarter	Sample Date	HAA5 Sample Result (mg/L)	Operational Evaluation Level (mg/L)	Locational Running Annual Average (mg/L)
1Q18	03/21/18	0.043	-	-
2Q18	06/21/18	0.037	-	-
3Q18	09/28/18	0.042	0.041	-
4Q18	12/13/18	0.113	0.076	0.059
1Q19	01/17/19	0.050	0.064	0.060

The ST2DBPR monitoring results listed in the previous tables indicate that the compliance monitoring conducted at the Tailings Street location in the last five quarters yielded a HAA5 LRAA level of 0.063 mg/L in the fourth quarter of 2018 and 0.069 mg/L in the first quarter of 2019.

### **DETERMINATIONS**

Based on the above Statement of Facts, the Division has determined that CSA #11 violated CCR, Title 22, Section 64533(a), in that the HAA5 MCL of 0.060-mg/L was exceeded during the fourth calendar quarter 2018 and the first calendar quarter 2019.

1 In addition, CSA #11's Operational Evaluation Levels exceeded the HAA5 MCL during  
2 these same calendar quarters.

3  
4 **DIRECTIVES**

5 To ensure that the water supplied by the CSA #11 water system is at all times safe,  
6 wholesome, healthful, and potable, and pursuant to the California SDWA, the CSA #11  
7 is hereby directed to take the following actions:

- 8
- 9 1. Comply with CCR, Title 22, Section 64533(a), in all future monitoring periods.
  - 10
  - 11 2. Evaluate the treatment system and distribution operational practices, including  
12 storage tank operations, excess storage capacity, distribution system flushing,  
13 changes in sources or source water quality, and treatment changes or problems  
14 that may contribute to TTHM and HAA5 formation. Should CSA #11 be able to  
15 identify the cause of the elevated HAA5, submit a written request to the State  
16 Board to limit the scope of this evaluation.
  - 17
  - 18 3. **By April 1, 2019**, submit a written report that summarizes the evaluation required  
19 in Directive 2 and identifies steps to be taken to minimize and/or eliminate future  
20 exceedances.
  - 21
  - 22 4. **By no later than March 8, 2019**, provide notice to all persons served by CSA  
23 #11 of the HAA5 MCL violation, in accordance with Title 22, CCR, Section  
24 64463.4. This notice shall be given by at least two methods:  
25 a. direct mail to customers of the CSA #11's water system  
26 and by  
27



or

The CSA #11's notice shall follow the language and format provided in Attachment A. Any changes to Attachment A must be approved by the Division prior to its distribution and publication.

6. Continue to collect quarterly samples for TTHM's and HAA5's from the distribution system in accordance with an approved ST2DBPR monitoring plan. The analytical results shall be reported to the Division by the analyzing laboratory no later than the 10<sup>th</sup> day following the month in which the analysis was completed.

7. Submit quarterly progress reports to the Division within 10 days after end of the calendar quarter. The first quarterly progress report shall describe progress made in implementing the operational changes recommended in the evaluation report and shall be submitted to the Division **by no later than July 10, 2019**, using the form provided as Attachment C.

8. Operate the existing water system to minimize formation of total trihalomethanes and haloacetic acids in the distribution system, while maintaining disinfection contact time requirements.



All submittals required by this Compliance Order shall be addressed to:

Stephen W. Watson, P.E.  
District Engineer  
State Water Resources Control Board  
Division of Drinking Water - Lassen District  
364 Knollcrest Drive, Suite #101  
Redding, CA 96002

The Division reserves the right to make such modifications to this Compliance Order as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Compliance Order and shall be effective upon issuance. Nothing in this Compliance Order relieves CSA #11 of its obligation to meet the requirements of the California SDWA, or any regulation, standard, permit or order issued thereunder.

If CSA #11 is unable to perform the tasks specified in this Compliance Order for any reason, whether within or beyond its control, and if CSA #11 notifies the Division in writing no less than five days in advance of the due date, the Division may extend the time for performance if the CSA #11 demonstrates that it has used its best efforts to comply with the schedule and other requirements of this Compliance Order.

### **PARTIES BOUND**

This Compliance Order shall apply to and be binding upon CSA #11, its owners, shareholders, officers, directors, agents, employees, contractors, successors, and assignees.



**SEVERABILITY**

The directives of this Compliance Order are severable, and CSA #11 shall comply with each and every provision thereof notwithstanding the effectiveness of any provision.

**FURTHER ENFORCEMENT ACTION**

The California SDWA authorizes the Division to issue citations and compliance orders with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any permit, regulation, permit or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the Division to take action to suspend or revoke a permit that has been issued to a public water system if the system has violated applicable law or regulations or has failed to comply with an order of the Division; and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with an order of the Division. The Division does not waive any further enforcement action by issuance of this compliance order.

2/7/2019

Date



Richard L. Hinrichs, P.E., Chief  
Northern California Section  
NORTHERN CALIFORNIA BRANCH  
DRINKING WATER FIELD OPERATIONS

**Attachments:**

Attachment A:	Public Notification Form
Attachment B:	Compliance Certification
Attachment C:	Quarterly Progress Report Form



Certified Mail No.:7017 0190 0000 6412 8451

**IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**

Este informe contiene información muy importante sobre su agua potable.

Tradúzcalo o hable con alguien que lo entienda bien.

**The Shasta CSA – French Gulch, #11 Water System  
has levels of Disinfection Byproducts  
above Drinking Water Standards**

Our water system recently failed a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what you should do, what happened, and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Test results we received in December 2018 and January 2019 indicate that our system exceeds the standard, or maximum contaminant level (MCL), for a group of disinfection byproducts known as Haloacetic Acids. The MCL standard for Haloacetic Acids is 60 ug/L (micrograms per liter, or parts per billion). The average level of Haloacetic Acids in our system over the last year is 64.8 ug/L.

### What should I do?

- **You do not need to use an alternative water supply.**
- **You do not need to use bottled water or boil your water.**
- This is not an immediate risk. If it had been, you would have been notified immediately. However, *some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

### What happened? What was done?

Haloacetic acids are a by-product of our disinfection process, and form in our drinking water treatment and distribution system when chlorine disinfectant reacts with naturally present organic matter in the water. The source of our drinking water is Upper Clear Creek. During the rainy season, more natural organic matter is present in Upper Clear Creek due to more sediments being washed into the creek by erosion. Therefore, the levels of haloacetic acids are typically higher during the winter months when compared to the rest of the year.

In response to these recent Haloacetic Acids sample results, we are evaluating possible changes to how we operate the treatment plant, storage tank, and distribution system in order to reduce the haloacetic acid levels below the maximum contaminant level. We will also be evaluating possible modifications to our treatment system which may be able to help reduce these levels. We anticipate resolving this problem within 6 months.

For more information, please contact [name] \_\_\_\_\_ at [phone number] \_\_\_\_\_ or at the following mailing address: \_\_\_\_\_.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

### Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- **SCHOOLS:** Must notify school employees, students, and parents (if the students are minors).
- **RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS** (including nursing homes and care facilities): Must notify tenants.
- **BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS:** Must notify employees of businesses located on the property.

**This notice is being sent to you by the Shasta CSA – French Gulch, #11.**

State Water System ID#: **4500317**.

Date distributed: \_\_\_\_\_.

**COMPLIANCE CERTIFICATION**Citation Number: **01-02-19R-001**Name of Water System: **Shasta CSA – French Gulch, #11**System Number: **4500317**

As required by Section 116450 of the California Health and Safety Code, I certify that the users of the water supplied by this water system were notified of the violations of Title 22, California Code of Regulations (CCR) for the compliance periods of the fourth quarter 2018 and the first quarter 2019. In addition, I certify that the Shasta CSA - French Gulch, #11 complied with the directives of this citation as indicated below:

<u>Required Action</u>	<u>Date Completed</u>
Submit a written evaluation report, as required by Directive 3, that summarizes the evaluation operational practices and identifies steps to be taken to minimize future exceedances <b>by April 1, 2019.</b>	_____
Public Notification via direct delivery, as required by Directive 4a, <b>by March 8, 2019.</b>	_____
Public Notification via newspaper publication or internet posting <b>by March 8, 2019</b> , as required by Directive 4b or 4c.	_____
_____	_____
Signature of Water System Representative	Date

**Attach a copy of the notices sent by direct mail and via either publication or posting to the water system customers.**

<b>THIS FORM MUST BE COMPLETED AND RETURNED TO THE DIVISION BY NO LATER THAN April 1, 2019</b>
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**Disclosure:** Be advised that Section 116725 and 116730 of the California Health and Safety Code states that any person who knowingly makes any false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars (\$5,000) for each separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by a fine of not more than \$25,000 for each day of violation, or be imprisoned in county jail not to exceed one year, or by both the fine and imprisonment.



# Quarterly Progress Report

Water System:	<b>Shasta CSA – French Gulch , #11</b>	Water System No.:	<b>4500317</b>
Compliance Order No.:	<b>01-02-19R-001</b>	Violation:	<b>LRAA HAA5 MCL</b>
Calendar Quarter:	Date Prepared:		

This form should be prepared and signed by Water System personnel with appropriate authority to implement the directives of the Compliance Order. Please attach additional sheets as necessary. The quarterly progress report must be submitted by the 10th day of each subsequent quarter, to the Division of Drinking Water, Lassen District, Redding Office.

## Tasks completed in the reporting quarter:

## Tasks remaining to complete:

Anticipated compliance date:

**Name**

**Signature**

**Title**

**Date**